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Worship's Burial Cost.*

In replying please address:

225X1

July 18, 1958

Dear Sir:

In accordance with recent discussions with your technical representative, we are herewith submitting a proposed research program directed toward the investigation of selected modifications for the experimental rectangular-cross-sectioned burial container being developed under Task Order No. S.

On July 8, 1958, a meeting was held with your technical representative to discuss the status of the research being performed under Task Order No. S in connection with the experimental rectangular-cross-sectioned container. At that time, an experiment was conducted wherein an empty experimental unit was pushed so that it fell over, from a vertical standing position, onto a concrete floor and landed on the protruding latch hinge. A visual inspection revealed that some of the closure-mechanism parts had been damaged slightly as a result of the fall. Then, the experimental unit was pressurized internally, to check for leakage. It was found that the experimental container leaked, past the O-ring, at a pressure of 3-1/2 psi. This leakage indicated that the fall had apparently caused some distortion in the closure components, because prior to the fall, this experimental unit had not leaked at 3-1/2-psi pressure or below.

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As a result, it was mutually deemed worth while to consider investigating an additional feature for probable application to the design of the experimental container. As currently visualized, this would be some type of structure, probably attached just below the flange of the experimental-container body, that would serve to stiffen the top of the body and also provide a resilient member, such as a rubber strip, to absorb the shock incurred if the empty experimental container were accidentally knocked over or dropped in service.

Also, your technical representative suggested that further consideration be given to the design of the closure mechanism. The present design of the closure mechanism serves the purpose quite satisfactorily. However, when in the closed position, this mechanism does not lie flat against the top of the experimental-container lid, and, consequently, might be used as a handle for carrying the experimental unit. Under such conditions, the closure mechanism might be damaged enough to prevent it from functioning properly. Thus, it appears prudent to investigate possible modifications that might eliminate the space between the closure mechanism and the lid. Also, attempts would be made to decrease the extent to which the latch hinge extends beyond the experimental-container body.

It is hereby proposed to conduct research directed toward investigating stiffener-bumper types of structures and modifications of the closure mechanism, as described above, for application to the current design of the experimental rectangular-cross-sectioned container.

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As currently contemplated, various ideas for effecting the above-described modifications would be considered and evaluated, and those which appeared to be most promising would be investigated. A selection would then be made, on a mutual basis, of the features which appeared to serve the purpose and these would be incorporated in probably one of the experimental containers. This experimental unit would be evaluated; if, as expected, the results of the proposed research were favorable, the selected features would be incorporated in the other Task Order No. 8 experimental containers. These experimental units would also be inspected and examined for leakage, and any necessary minor changes would be made, to the extent possible within the limits of the time and funds provided. Subsequently, the experimental containers would be shipped to your technical representative for further evaluation.

Your technical representatives would be kept informed of the activity under the proposed program by discussions via the telephone and during their periodic visits. At the conclusion of the proposed research period, a letter report would be submitted that summarized the highlights of the activity performed.

We propose to undertake this activity over a period of three months, starting on the date of acceptance of authorization from the Contracting Officer to proceed. The proposed program could be conducted under the general-services-task which was proposed in our letter dated July 18, 1958. The Work Order would be a period-basis research agreement; it would be similar in

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form to those used previously under Task Order No. R and the same administrative procedure would be followed. The Work Order would require only that the effort be directed toward the objectives outlined above, within the limits of the funds and time provided.

It is estimated that an appropriation of \$2996, including the fixed fee, is needed to fund the proposed program for the three-month period. A general breakdown of the estimated costs is attached.

Should any additional information be needed, please let us know. You may direct any inquiries of a contractual nature to

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Very truly yours,

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Vice President

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In Duplicate

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the U. S. Government.

For Research on Investigation of Selected Modifications for Rectangular-Cross-Sectioned Container.

Based upon a period-basis Contract for a research period of **three months.**

(Including time for submission of all reports. The proposed contract will not provide for earlier conclusion of the research.)

ESTIMATED COSTS

We expect that the cost of this research for the period indicated above may be distributed approximately as set forth hereon, subject to the understanding that this allocation is merely an estimate, and actual costs incurred may vary from the categories shown. We have determined that these estimates are reasonable and consistent with established policies in its research for the various Government agencies, which policies are briefly discussed below and will be followed in determination of our actual costs hereunder.

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Materials & Supplies, etc.

\$ 150

(Including any equipment which may be purchased as necessary in performance of the research. Charges of \$25 or less are excluded from this item.)

Use of Equipment and Technical Services, Travel, and Misc.

\$ 300

(Including applicable costs of technical research and service divisions, and use of technical equipment, except that any undistributed balances of these accounts will be included in overhead. Cost of travel includes reasonable actual subsistence expenses and the actual cost of transportation. An allowance of up to 8¢ per mile for all necessary travel by privately owned conveyance is included in lieu of the cost of such travel.)

Salaries & Wages

(Including our predetermined accrual for vacation, holiday, and sick-leave pay, pensions, and social security.)

Type of Employee	No. of Man-Months	Estimated Cost
Supervision	1/4	\$250
Research Engineers	1	705
Lab. Assistants	1	420
Steno., Clerical, Shop & Photo., etc.	1/3	110
Total Salaries & Wages		\$1,485

Overhead

60 per cent of salaries and wages, as they are defined above. Provisional monthly reimbursement will be at the rate of 56 per cent of salaries and wages, as so defined, or at such other provisional rate as may from time to time be mutually agreed upon with the Government's audit representatives. This is a provisional rate for current reimbursement, which we have arrived at by negotiation with Government representatives, and it will be subject to retroactive revision to the "actual" rate agreed upon with them for each calendar year following a detailed audit for that year. The item of overhead includes general research, charges of \$25 or less for materials and supplies, and other categories of costs we customarily include in our overhead account. Cash discounts on all purchases will be credited to overhead, instead of to the amount of the purchase. Scrap of appreciable value will be credited directly to the project. All other scrap will be credited to the overhead account, in which the Government participates.)

\$ 891

Total Estimated Cost \$2,826

Fixed Fee \$ 170

Contract Price \$2,996

*Please let us have your acceptance in our hands by **August 31, 1958**.
Unless we extend the time, your acceptance after that date will be subject to agreement.

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